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### 1 [On computing nearest singular hankel matrices](#)

[Markus A. Hitz](#)

 July 2005 **ISSAC '05**: Proceedings of the 2005 international symposium on algebraic computation

**Publisher:** ACM

 Full text available: [Pdf](#) (97.60 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
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We explore the problem of computing a nearest singular matrix to a given Hankel matrix while preserving the structure of the matrix. Nearness is measured by the Frobenius matrix norm, or a componentwise norm. A recent result for structured matrices is extended to Hankel matrices.

**Keywords:** Hankel, Toeplitz, hybrid symbolic/numeric computing, nearest singular matrix, parametric minimization

### 2 [Block variants of Hammarling's method for solving Lyapunov equations](#)

[Daniel Kressner](#)

 January 2008 **Transactions on Mathematical Software (TOMS)**, Volume 34

**Publisher:** ACM

 Full text available: [Pdf](#) (240.40 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
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This article is concerned with the efficient numerical solution of the Lyapunov equation  $A^T X + X A = -C$  with a stable matrix  $A$  and a symmetric positive semidefinite matrix  $C$ .

**Keywords:** Lyapunov equation, block algorithm, numerical solution

### 3 [A more reliable reduction algorithm for behavioral model extraction](#)

[D. Vasilyev, J. White](#)

 May 2005 **ICCAD '05**: Proceedings of the 2005 IEEE/ACM International Conference on Computer-aided design

**Publisher:** IEEE Computer Society

 Full text available: [Pdf](#) (357.66 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
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In this paper we are concerned with developing more reliable model reduction techniques.

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